



| Form PTO-1449                                                                          |                 |   |   |   |   |   |          | Docket Number Optional<br>03768/09188 DIV (13267.1) |                      | Application Number<br>10/706,809 |          |                               |
|----------------------------------------------------------------------------------------|-----------------|---|---|---|---|---|----------|-----------------------------------------------------|----------------------|----------------------------------|----------|-------------------------------|
| INFORMATION DISCLOSURE CHART<br>IN AN APPLICATION<br>(Use several sheets if necessary) |                 |   |   |   |   |   |          | Applicant<br>Smith, et al                           |                      | Filing Date<br>November 12, 2003 |          |                               |
|                                                                                        |                 |   |   |   |   |   |          | Examiner<br>Unknown                                 |                      | Group Art Unit<br>1772           |          |                               |
| U.S. PATENT DOCUMENTS                                                                  |                 |   |   |   |   |   |          |                                                     |                      |                                  |          |                               |
| EXAMINER<br>INITIAL                                                                    | DOCUMENT NUMBER |   |   |   |   |   |          | DATE                                                | NAME                 | CLASS                            | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
| EL                                                                                     | R               | E | 3 | 2 | 0 | 2 | 8        | 11/12/85                                            | Fischer              | 525                              | 194      |                               |
|                                                                                        | 3               | 9 | 6 | 2 | 0 | 1 | 8        | 06/08/76                                            | Costermalle et al    | 156                              | 306      |                               |
|                                                                                        | 4               | 2 | 2 | 6 | 9 | 0 | 5        | 10/07/80                                            | Harbourne            | 428                              | 220      |                               |
|                                                                                        | 4               | 5 | 2 | 6 | 7 | 3 | 3        | 07/02/85                                            | Lau                  | 264                              | 12       |                               |
|                                                                                        | 4               | 6 | 2 | 6 | 4 | 6 | 7        | 12/02/86                                            | Hostetter            | 428                              | 288      |                               |
|                                                                                        | 4               | 7 | 2 | 0 | 4 | 1 | 5        | 01/19/88                                            | Vander Wielen et al. | 428                              | 152      |                               |
|                                                                                        | 4               | 7 | 7 | 5 | 5 | 7 | 9        | 10/04/88                                            | Hagy et al           | 428                              | 284      |                               |
|                                                                                        | 4               | 8 | 0 | 4 | 5 | 7 | 7        | 02/14/89                                            | Hazelton             | 428                              | 224      |                               |
|                                                                                        | 4               | 8 | 3 | 3 | 1 | 9 | 4        | 05/23/89                                            | Kuan et al           | 524                              | 525      |                               |
|                                                                                        | 4               | 8 | 9 | 1 | 4 | 0 | 9        | 01/02/90                                            | Kuan et al           | 525                              | 237      |                               |
|                                                                                        | 4               | 9 | 4 | 0 | 4 | 6 | 4        | 07/10/90                                            | Van Gompel et al     | 604                              | 396      |                               |
|                                                                                        | 4               | 9 | 9 | 0 | 2 | 0 | 4        | 02/05/91                                            | Krupp et al          | 156                              | 167      |                               |
|                                                                                        | 5               | 0 | 1 | 5 | 5 | 2 | 5        | 05/14/91                                            | Yagi et al           | 428                              | 364      |                               |
|                                                                                        | 5               | 0 | 1 | 1 | 8 | 9 | 1        | 04/30/91                                            | Spenadel et al       | 525                              | 211      |                               |
|                                                                                        | 5               | 0 | 7 | 1 | 6 | 8 | 6        | 12/10/91                                            | Genske et al         | 428                              | 35.7     |                               |
|                                                                                        | 5               | 1 | 1 | 0 | 6 | 8 | 5        | 05/05/92                                            | Cross et al          | 428                              | 494      |                               |
|                                                                                        | 5               | 1 | 1 | 0 | 8 | 7 | 0        | 05/05/92                                            | Fujii                | 525                              | 194      |                               |
|                                                                                        | 5               | 1 | 1 | 6 | 6 | 6 | 2        | 05/26/92                                            | Morman               | 428                              | 198      |                               |
|                                                                                        | 5               | 1 | 7 | 7 | 1 | 4 | 7        | 01/05/93                                            | Spenadel et al       | 525                              | 88       |                               |
|                                                                                        | 5               | 2 | 3 | 8 | 7 | 3 | 3        | 08/24/93                                            | Joseph et al         | 428                              | 284      |                               |
|                                                                                        | 5               | 2 | 4 | 1 | 0 | 3 | 1        | 08/31/93                                            | Mehta                | 526                              | 348.1    |                               |
|                                                                                        | 5               | 2 | 5 | 0 | 6 | 1 | 2        | 10/05/93                                            | Hazlitt              | 525                              | 53       |                               |
|                                                                                        | 5               | 2 | 7 | 2 | 2 | 3 | 6        | 12/21/93                                            | Lai                  | 526                              | 348.5    |                               |
|                                                                                        | 5               | 2 | 7 | 3 | 7 | 9 | 7        | 12/28/93                                            | Hazelton             | 428                              | 34.7     |                               |
|                                                                                        | 5               | 2 | 7 | 8 | 2 | 7 | 2        | 01/11/94                                            | Lai                  | 526                              | 348.5    |                               |
|                                                                                        | 5               | 3 | 0 | 6 | 5 | 4 | 5        | 04/26/94                                            | Shirayanagi          | 428                              | 198      |                               |
|                                                                                        | 5               | 3 | 1 | 9 | 0 | 2 | 9        | 06/07/94                                            | Martin et al         | 525                              | 240      |                               |
|                                                                                        | 5               | 3 | 2 | 2 | 7 | 2 | 8        | 06/21/94                                            | Davey                | 428                              | 296      |                               |
|                                                                                        | 5               | 3 | 2 | 4 | 8 | 0 | 0        | 06/28/94                                            | Welborn, Jr. et al   | 526                              | 160      |                               |
|                                                                                        | 5               | 3 | 2 | 6 | 6 | 0 | 2        | 07/05/94                                            | Rifi                 | 428                              | 35.7     |                               |
| 5                                                                                      | 3               | 5 | 0 | 6 | 2 | 4 | 09/27/94 | Georger et al                                       | 428                  | 219                              |          |                               |
| 5                                                                                      | 3               | 5 | 8 | 7 | 9 | 2 | 10/25/94 | Mehta                                               | 428                  | 516                              |          |                               |
| 5                                                                                      | 3               | 7 | 0 | 9 | 4 | 0 | 12/06/94 | Hazlitt                                             | 428                  | 516                              |          |                               |
| 5                                                                                      | 3               | 7 | 6 | 4 | 3 | 9 | 12/27/94 | Hodgson                                             | 428                  | 220                              |          |                               |
| 5                                                                                      | 3               | 7 | 8 | 7 | 6 | 4 | 01/03/95 | Benham et al                                        | 525                  | 240                              |          |                               |
| 5                                                                                      | 3               | 8 | 2 | 6 | 3 | 0 | 01/17/95 | Stehling                                            | 525                  | 240                              |          |                               |
| 5                                                                                      | 3               | 8 | 2 | 6 | 3 | 1 | 01/17/95 | Stehling                                            | 525                  | 240                              |          |                               |
| 5                                                                                      | 3               | 8 | 5 | 9 | 7 | 2 | 01/31/95 | Yamamoto                                            | 524                  | 579                              |          |                               |
| 5                                                                                      | 3               | 9 | 3 | 5 | 9 | 9 | 02/28/95 | Quantrille et al                                    | 428                  | 284                              |          |                               |
| 5                                                                                      | 3               | 9 | 5 | 4 | 7 | 1 | 03/07/95 | Obijeski                                            | 156                  | 244.11                           |          |                               |
| 5                                                                                      | 4               | 2 | 2 | 1 | 7 | 2 | 06/06/95 | Wu                                                  | 428                  | 230                              |          |                               |
| 5                                                                                      | 4               | 5 | 1 | 4 | 5 | 0 | 09/19/95 | Erderly                                             | 428                  | 220                              |          |                               |
| 5                                                                                      | 4               | 7 | 0 | 6 | 3 | 9 | 11/28/95 | Gessner                                             | 428                  | 152                              |          |                               |
| 5                                                                                      | 4               | 7 | 2 | 7 | 7 | 5 | 12/05/95 | Obijeski                                            | 428                  | 220                              |          |                               |
| 5                                                                                      | 4               | 7 | 5 | 0 | 7 | 5 | 12/12/95 | Brant                                               | 526                  | 348.3                            |          |                               |

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|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------|---|-----------------|---|---|----------|-----------------------------------------------------|-----------------------|----------------------------------|--|
| Form PTO-1449                                                                             |                                                                                                                                                                                                                            |   |          |   |                 |   |   |          | Docket Number Optional<br>03768/09188 DIV (13267.1) |                       | Application Number<br>10/706,809 |  |
| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(Use several sheets if necessary) |                                                                                                                                                                                                                            |   |          |   |                 |   |   |          | Applicant<br>Smith, et al                           |                       | Filing Date<br>November 12, 2003 |  |
|                                                                                           |                                                                                                                                                                                                                            |   |          |   |                 |   |   |          | Examiner<br>Unknown                                 |                       | Group Art Unit<br>1772           |  |
|                                                                                           |                                                                                                                                                                                                                            |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
| 92                                                                                        | 5                                                                                                                                                                                                                          | 5 | 0        | 0 | 2               | 6 | 0 | 03/19/96 | Halle et al                                         | 428                   | 35.7                             |  |
|                                                                                           | 5                                                                                                                                                                                                                          | 5 | 3        | 9 | 0               | 7 | 6 | 07/23/96 | Nowlin                                              | 526                   | 348.1                            |  |
|                                                                                           | 5                                                                                                                                                                                                                          | 5 | 7        | 3 | 7               | 1 | 7 | 11/12/96 | Peiffer                                             | 264                   | 45.1                             |  |
|                                                                                           | 5                                                                                                                                                                                                                          | 5 | 8        | 2 | 9               | 2 | 3 | 12/10/96 | Kale                                                | 428                   | 523                              |  |
|                                                                                           | 5                                                                                                                                                                                                                          | 5 | 8        | 9 | 5               | 6 | 1 | 12/31/96 | Barry                                               | 526                   | 348.1                            |  |
|                                                                                           | 5                                                                                                                                                                                                                          | 5 | 9        | 3 | 7               | 4 | 7 | 01/14/97 | Georgeios                                           | 428                   | 36.7                             |  |
|                                                                                           | 5                                                                                                                                                                                                                          | 5 | 9        | 4 | 0               | 7 | 1 | 01/14/97 | Takahashi et al                                     | 525                   | 240                              |  |
|                                                                                           | 5                                                                                                                                                                                                                          | 5 | 9        | 7 | 1               | 9 | 4 | 01/28/97 | Daugherty et al                                     | 296                   | 39.2                             |  |
|                                                                                           | 5                                                                                                                                                                                                                          | 6 | 1        | 2 | 1               | 2 | 3 | 03/18/97 | Gessner                                             | 442                   | 401                              |  |
|                                                                                           | 5                                                                                                                                                                                                                          | 6 | 3        | 5 | 2               | 6 | 2 | 06/03/97 | Best et al                                          | 428                   | 36.92                            |  |
|                                                                                           | 6                                                                                                                                                                                                                          | 0 | 8        | 7 | 4               | 2 | 9 | 07/11/00 | Yamamoto et al.                                     | 524                   | 451                              |  |
|                                                                                           | 6                                                                                                                                                                                                                          | 1 | 1        | 1 | 0               | 2 | 3 | 08/29/00 | Chum et al.                                         | 525                   | 240                              |  |
|                                                                                           | 6                                                                                                                                                                                                                          | 1 | 1        | 4 | 4               | 5 | 6 | 09/05/00 | Dewart et al.                                       | 525                   | 240                              |  |
|                                                                                           | 6                                                                                                                                                                                                                          | 1 | 1        | 4 | 4               | 5 | 7 | 09/05/00 | Markel et al.                                       | 525                   | 240                              |  |
| FOREIGN PATENT DOCUMENTS                                                                  |                                                                                                                                                                                                                            |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
|                                                                                           | DOCUMENT NUMBER                                                                                                                                                                                                            |   | DATE     |   | NAME            |   |   | CLASS    | SUBCLASS                                            | Translation<br>YES NO |                                  |  |
| 92                                                                                        | EP 0659808 A1                                                                                                                                                                                                              |   | 28.06.95 |   | Kaneko et al    |   |   | C08J     | 5/18                                                |                       |                                  |  |
|                                                                                           | EP 0600482                                                                                                                                                                                                                 |   | 02.12.93 |   | Yamamoto et al. |   |   | C08L     | 23/04                                               |                       |                                  |  |
|                                                                                           | EP 0315507                                                                                                                                                                                                                 |   | 27.10.88 |   | Hagy et al.     |   |   | D04H     | 5/02                                                |                       |                                  |  |
|                                                                                           | WO 93/08221                                                                                                                                                                                                                |   | 29.04.93 |   | Lai et al       |   |   | C08F     | 10/00                                               |                       |                                  |  |
|                                                                                           | WO 94/06857                                                                                                                                                                                                                |   | 31.03.94 |   | Hodgson et al   |   |   | C08L     | 23/04                                               |                       |                                  |  |
|                                                                                           | WO 94/07930                                                                                                                                                                                                                |   | 14.04.94 |   | Brant et al     |   |   | C08F     | 299/00                                              |                       |                                  |  |
|                                                                                           | WO 94/28064                                                                                                                                                                                                                |   | 08.12.94 |   | Agarwal         |   |   | C08L     | 23/04                                               |                       |                                  |  |
|                                                                                           | WO 95/03443                                                                                                                                                                                                                |   | 02.02.95 |   | Quantrille      |   |   | D04H     | 13/00                                               |                       |                                  |  |
|                                                                                           | WO 95/05418                                                                                                                                                                                                                |   | 23.02.95 |   | Obijeski        |   |   | C08L     | 23/04                                               |                       |                                  |  |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)                    |                                                                                                                                                                                                                            |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
| 92                                                                                        | Derwent Publications, Ltd., JA 0047039, March 1983                                                                                                                                                                         |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
| 92                                                                                        | Derwent Publications, Ltd., JA 0084942, May 1984                                                                                                                                                                           |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
| 92                                                                                        | Derwent Publications, Ltd., JO 2235947, September 1990                                                                                                                                                                     |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)                    |                                                                                                                                                                                                                            |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
| 92                                                                                        | Hu, Yirong, et al., "Elastomeric Polypropylenes from Unbridged (2-Phenylindene)zirconocene Catalysts: Thermal Characterization and Mechanical Properties," MACROMOLECULES, vol. 31, no. 20, 1998, U.S.A., pages 6908-6916. |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
|                                                                                           | Schut, Jan H., "Compounding with Metallocene-PE Makes New Opportunities for PP," PLASTICS FORMULATING & COMPOUNDING, vol. 2., no. 2, 1996, page 6.                                                                         |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
|                                                                                           | Chundry, D., et al., "Metallocene-Based Polyolefin Alloys, Blends and Compounds," PLASTICS FORMULATING & COMPOUNDING, vol. 2, no. 2, 1996, pages 18-24.                                                                    |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
|                                                                                           | Vogel, R., et al., "Generation of Polyolefin Fiber with Higher Tenacity by Favourable Blending," CHEMICAL FIBERS INTERNATIONAL, vol. 46, 1996, pages 421-423.                                                              |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
|                                                                                           | Kale, L.T., et al., "Structure-Property Relationships of Ethylene/1-Octane and Ethylene/1-Butane Copolymers Made Using Insite Technology," ANTEC, 1995, pages 2249-2255.                                                   |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
|                                                                                           | Bensason, Selim, et al., "The Tensile Deformation Behavior of Homogeneous Ethylene-Octane Copolymers Produced by The Dow Constrained Geometry Catalyst Technology," ANTEC, 1995, pages 2256-2262.                          |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |
| 92                                                                                        | "Dow plans three-phase rollout of polyolefin 'plastomers' and elastomers," PLASTICS TECHNOLOGY, vol. 38, no. 12, 1992, page 63.                                                                                            |   |          |   |                 |   |   |          |                                                     |                       |                                  |  |

Original made 11/16/00